

## FIG. 1 PRIOR ART

First Apparition: Macbeth! Macbeth! Macbeth! Beware Macduff; Beware the thane of Fife. Dismiss me. Enough.

MACBETH: Whate'er thou art, for thy good caution, thanks; Thou hast harp'd my fear aright: but one word more...

First Witch: He will not be commanded: here's another, more potent than the first.

Second Apparition: Macbeth! Macbeth! Macbeth!

MACBETH: Had I three ears, I'd hear thee.

Second Apparition: Be bloody, bold, and resolute; laugh to scorn the power of man, for none of woman born shall harm Macbeth.

MACBETH: Then live, Macduff; what need I fear of thee? But yet I'll make assurance double sure, And take a bond of fate: thou shalt not live; That I may tell pale-hearted fear it lies, and sleep in spite of thunder.

What is this that rises like the issue of a king, and wears upon his baby-brow the round and top of sovereignty?

ALL: Listen, but speak not to't.

Third Apparition: Be lion-mettled, proud; and take no care who chases, who frets, or where conspirers are: Macbeth shall never vanquish'd be until Great Birnam wood to high Dunsinane hill shall come against him.

MACBETH: That will never be. Who can impress the forest, bid the tree, unfix his earth-bound root? Sweet bodedments! Good! Rebellion's head, rise, never till the wood of Birnam rise, and our high-placed Macbeth shall live the lease of nature, pay his breath to time and mortal custom. Yet my heart throbs to know one thing: tell me, if your art can tell so much: shall Banquo's issue ever Reign in this kingdom?

ALL: Seek to know no more.

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FIG. 2 PRIOR ART

First Apparition: Macbeth! Macbeth! Macbeth! Beware  
Macduff: Beware the thane of Fife. Dismiss me.  
Enough.

MACBETH: Whate'er thou art, for thy good caution,  
thanks; Thou hast harp'd my fear aright: but one word  
more...

First Witch: He will not be commanded: here's  
another, more potent than the first.

Second Apparition: Macbeth! Macbeth! Macbeth!

MACBETH: Had I three ears, I'd hear thee.

Second Apparition: Be bloody, bold, and resolute;  
taugh to scorn the power of man, for none of woman  
born shall harm Macbeth.

MACBETH: Then live, Macduff: what need I fear of  
thee? But yet I'll make assurance double sure. And  
take a bond of fate: thou shalt not live: That I may  
tell pale-hearted fear it lies, and sleep in spite of  
thunder.

What is this that rises like the issue of a king, and  
wears upon his baby-brow the round and top of  
sovereignty?

ALL: Listen, but speak not to't.

Third Apparition: Bellion-mettled, proud; and take no  
care who chafes, who frets, or where conspirers are:  
Macbeth shall never vanquish'd be until Great Birnam  
wood to high Dunsinane hill shall come against him.

MACBETH: That will never be. Who can impress the  
forest, bid the tree, unfix his earth-bound root? Sweet  
bodements! Good! Rebellion's head, rise never till the  
wood of Birnam rise, and our high-placed Macbeth  
shall live the lease of nature, pay his breath to time  
and mortal custom. Yet my heart throbs to know one  
thing: tell me, if your art can tell so much: shall  
Banquo's issue ever Reign in this kingdom?

ALL: Seek to know no more.

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FIG.3 PRIOR ART

First Apparition: Macbeth! Macbeth! Macbeth! Beware Macduff; Beware the thane of Fife. Dismiss me, enough.

MACBETH: Whatever thou art, for thy good caution, thanks; Thou hast harg'd my last night, but one word more...

First Witch: He will not be commanded; here's another, more potent than the first.

Second Apparition: Macbeth! Macbeth! Macbeth!

MACBETH: Had I three ears, I'd hear thee

Second Apparition: Be bloody, bold, and resolute; laugh to scorn the power of man, for none of woman born shall harm Macbeth.

MACBETH: Then live, Macduff; what need I fear of thee? But yet I'll make assurance double sure, And take a bond of fate: thou shalt not live; That I may tell pale-hearted traitor it lies, and sleep in spite of thunder.

What is that that rises like the issue of a king, and wears open his baby-brow the round and top of sovereignty?

All: Listen, but speak not; for,

Third Apparition: Be iron-mettle'd, proud; and take no care who chafes, who frets, or where conspirers are: Macbeth shall never vanquish'd be until Great Birnam wood to high Dunsinane hill shall come against him.

MACBETH: That will never be. Who can impress the forest, bid the tree, unfix his earth-bound root? Sweet bedement! Good! Rebellion's head, rise never till the wood of Birnam rise, and for high-placed Macbeth shall live the least of nature, pay his breath to time and mortal custom. Yet my heart throbs to know one thing: tell me, if your art can tell so much, shall Banquo's issue ever reign in this kingdom?

All: Seek to know no more.

## FIG. 4 PRIOR ART

First Apparition: Macbeth! Macbeth! Macbeth! Beware  
Macduff! Beware the Thane of Fife. Banish me,  
though.

MACBETH: Woe's me then art, for thy good caution,  
thou; Who best hap'd my dear sight; but was word  
true...

First Witch: He will not be commanded: None's  
conquer, more pale than his first.

Second Apparition: Macbeth! Macbeth! Macbeth!

MACBETH: Had I three ears, I'd hear thee.

Second Apparition: Be bloody, bold, and resolute;  
Iough to snare the power of war, for none of woman  
born shall harm Macbeth.

MACBETH: Then live, Macduff; what need I fear of  
that? But yet I'll make assurance double sure, and  
take a corded fate; that shall not live; What I may  
tell pale-hearded fear it lied, and sleep is spite of  
thunder.

What is this that rises like the issue of a king, and  
wears upon his baby-brow the round sun-top of  
conquer?

All: Lest us, but speak not fast.

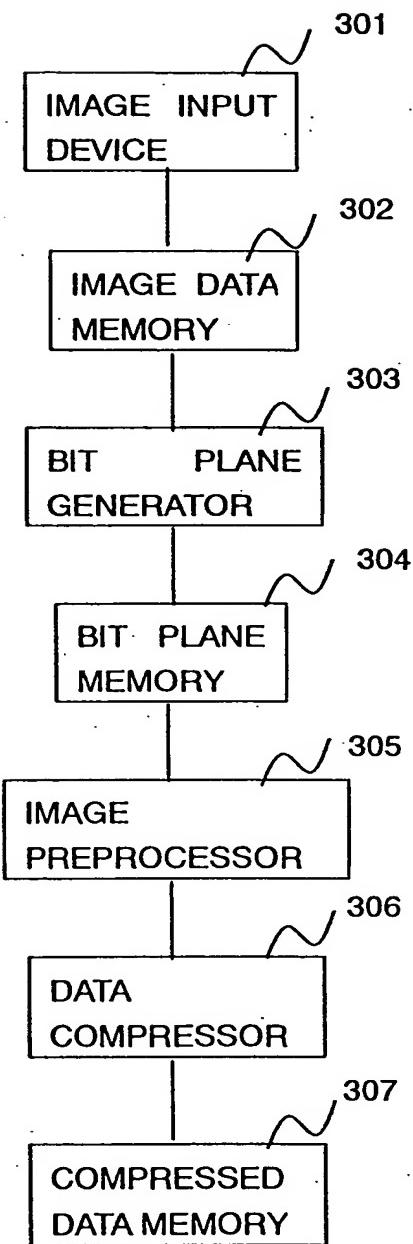
Third Apparition: Be lion-mettled, proof, and take no  
care who chafes, who frets, or where conspiracy lies:  
Macbeth shall never vanquish'd be until Great Birnam  
wood to high Dunsinane hill shall come against him.

MACBETH: That will never be. Who can impress the  
forest, bid the tree, unfix his watch-horned roots? Sweet  
bedeviled Queen! Rebellion & hand, also never till the  
wood of Birnam rise, and our high-prised Macbeth  
shall live the least of nature, pay his death in times  
and mortal custom. Yet my heart throb'd to know one  
thing: tell me, if you art can tell, who shall  
Banquo's issue ever reign in this kingdom?

All: Seek to know no more.

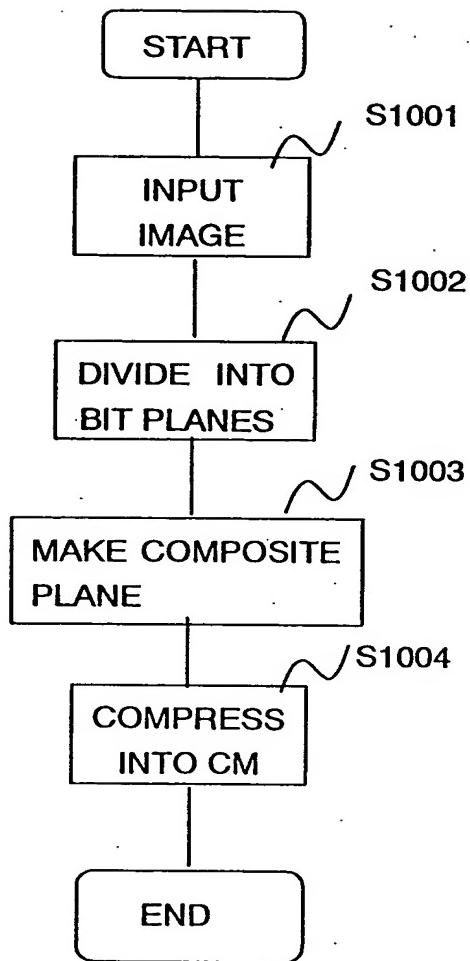
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FIG.5



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FIG.6

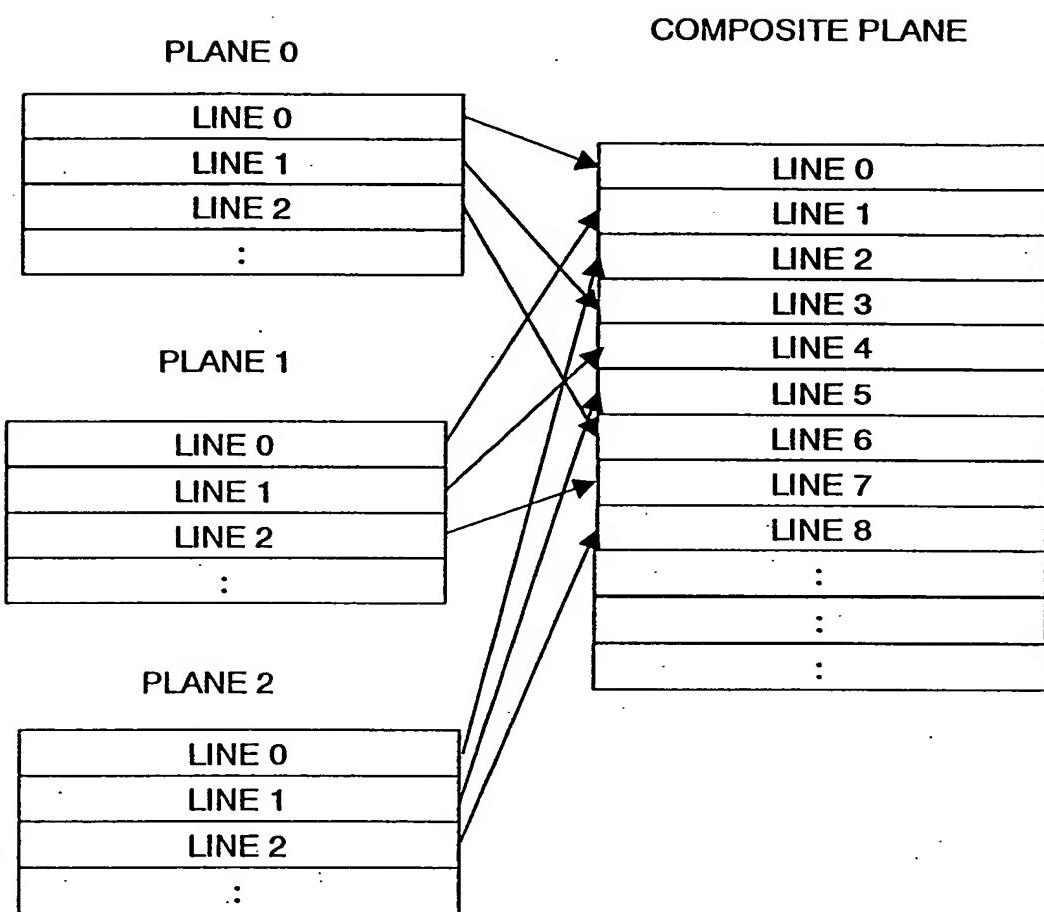


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FIG.7

PIXEL VALUE	BINARY REPRESENT- ATION			PIXEL VALUE OF THE FIRST PLANE	PIXEL VALUE OF THE SECOND PLANE	PIXEL VALUE OF THE THIRD PLANE
0	0	0	0	0	0	0
1	0	0	1	0	0	1
2	0	1	0	0	1	0
3	0	1	1	0	1	1
4	1	0	0	1	0	0
5	1	0	1	1	0	1
6	1	1	0	1	1	0
7	1	1	1	1	1	1

FIG.8



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FIG9

PLANE 0

0	0	0	0	0	1
0	1	0	0	1	1

COMPOSITE PLANE

0	0	0	1	0	0	0	1	1	0	1	
2	0	0	3	0	0	2	0	1	3	0	1
0	1	0	1	1	0	0	1	1	1	1	
2	1	0	3	1	0	2	1	1	3	1	

PLANE 1

1	0	0	1	0	1
1	1	0	1	1	1

PLANE 2

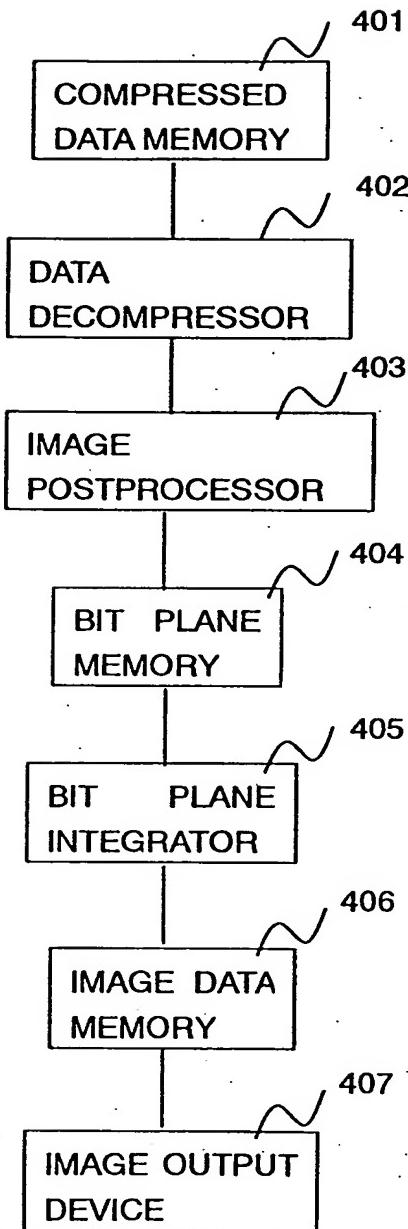
2	0	0	2	0	1
2	1	0	2	1	1

PLANE 3

3	0	0	3	0	1
3	1	0	3	1	1

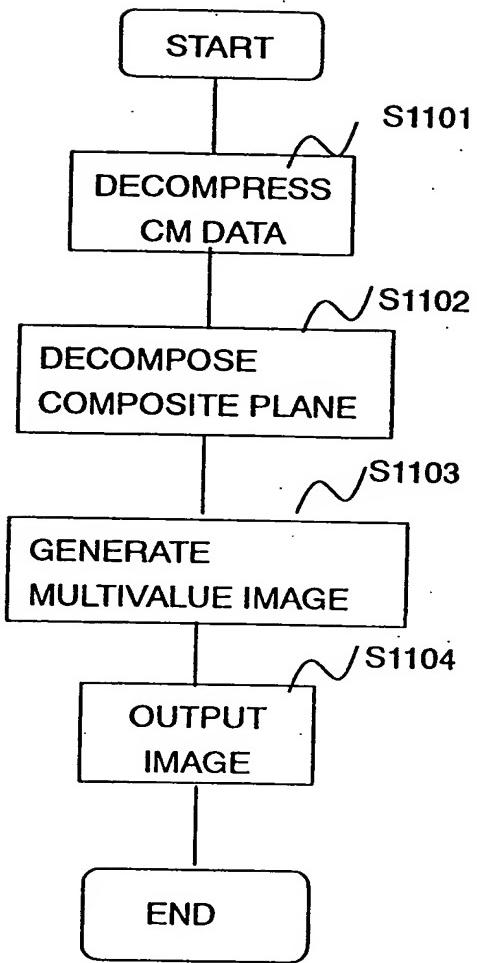
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FIG.10



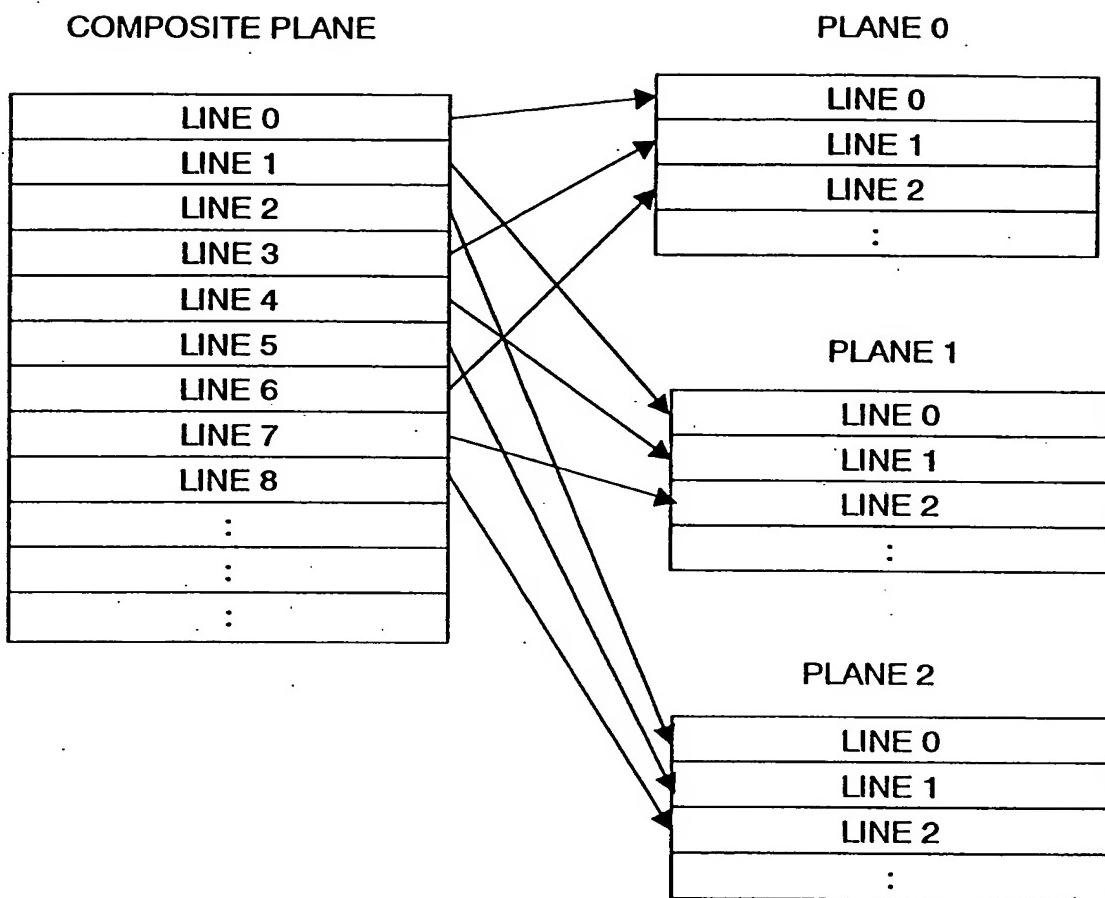
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FIG.11



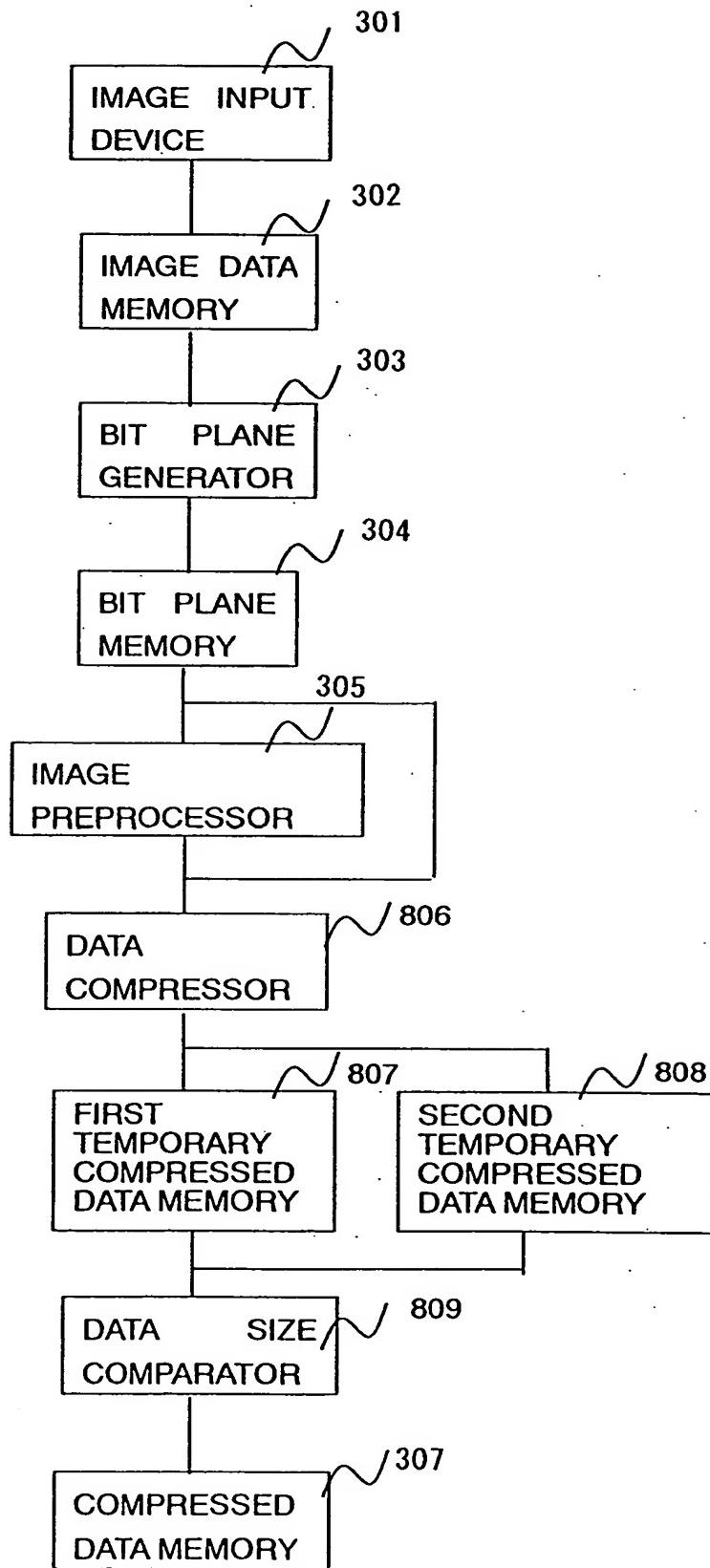
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FIG.12



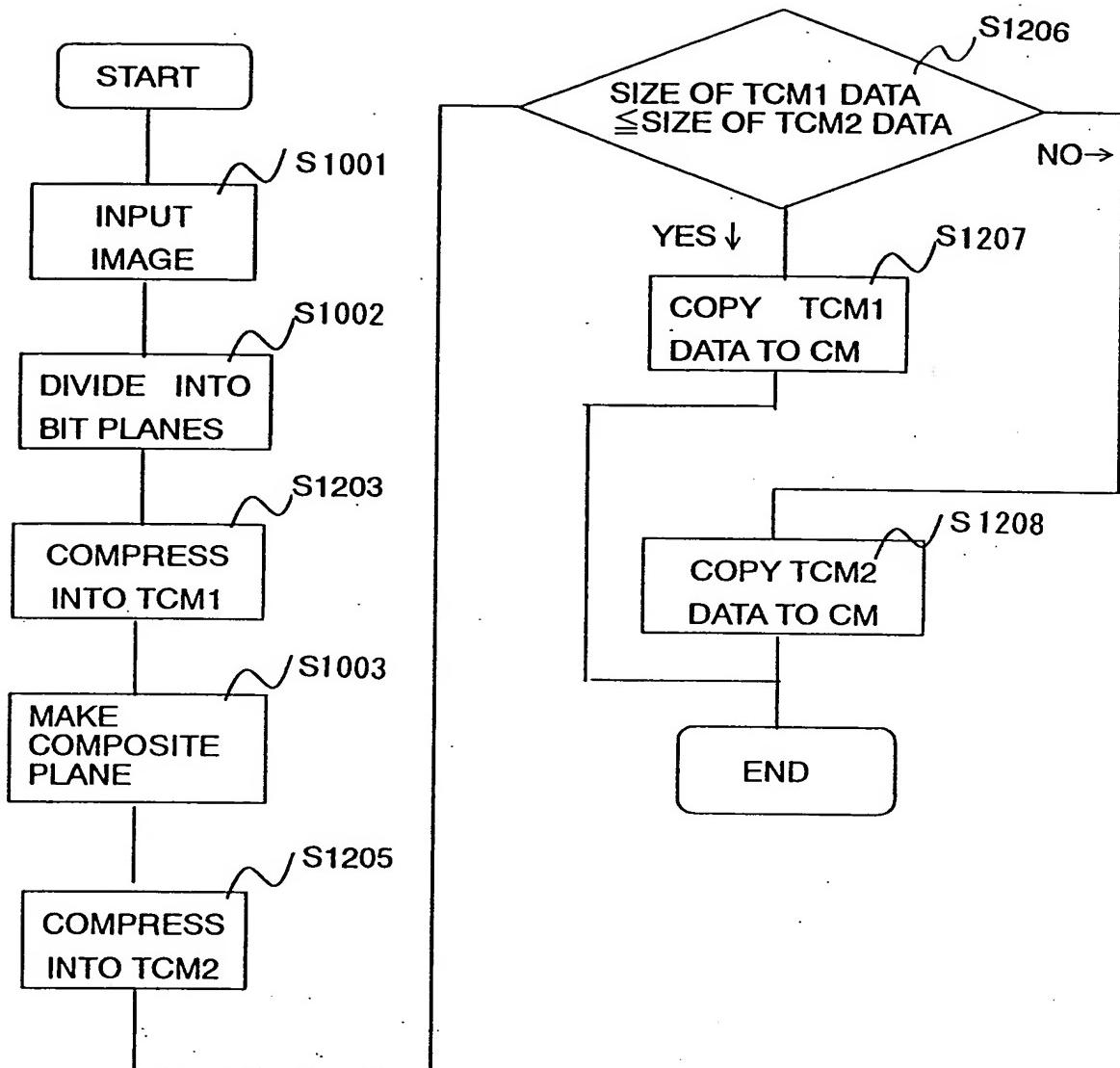
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FIG.13



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FIG.14



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FIG.15

CONTENTS	SIZE (IN BYTES)
NUMBER OF PLANES (N)	2
SIZE OF COMPRESSED DATA OF PLANE 0(S[0])	4
SIZE OF COMPRESSED DATA OF PLANE 1(S[1])	4
:	:
SIZE OF COMPRESSED DATA OF PLANE N-1 (S[N - 1])	4
COMPRESSED DATA OF PLANE 0	S[0]
COMPRESSED DATA OF PLANE 1	S[1]
:	:
COMPRESSED DATA OF PLANE N-1	S[N - 1]

FIG.16

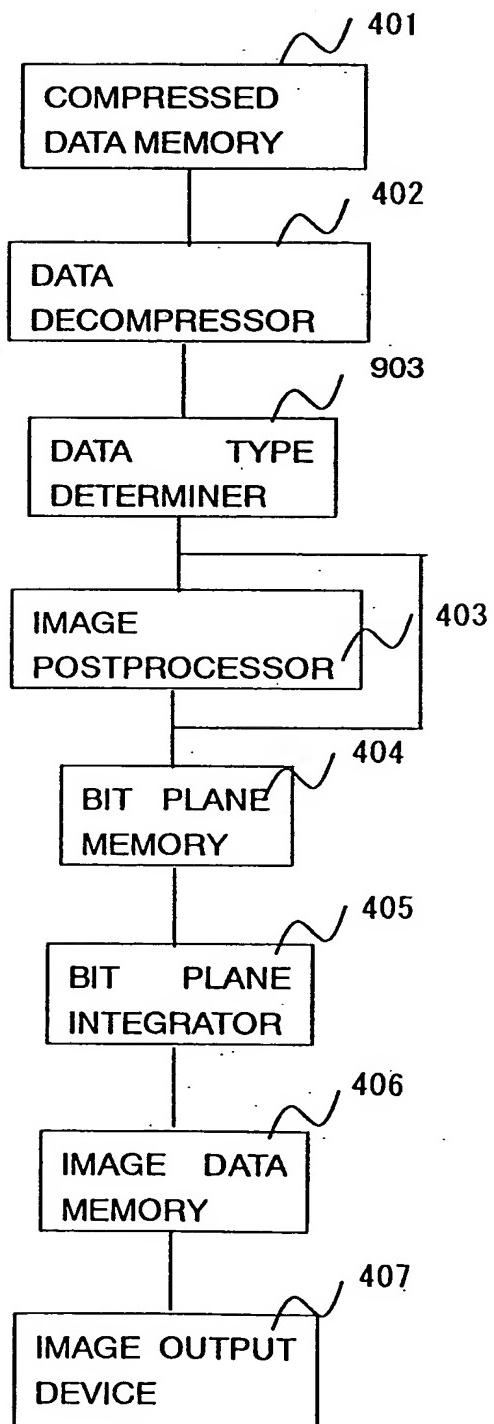
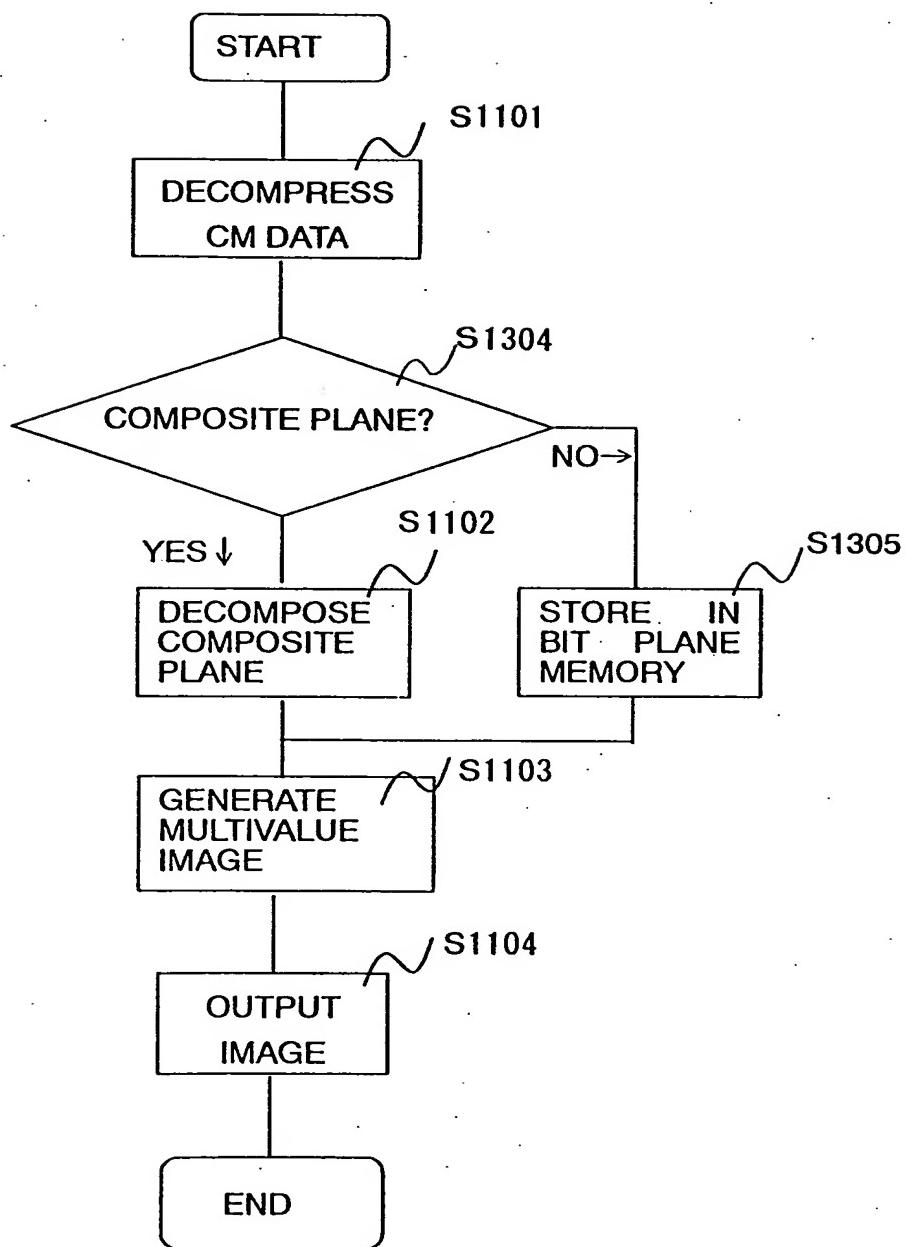
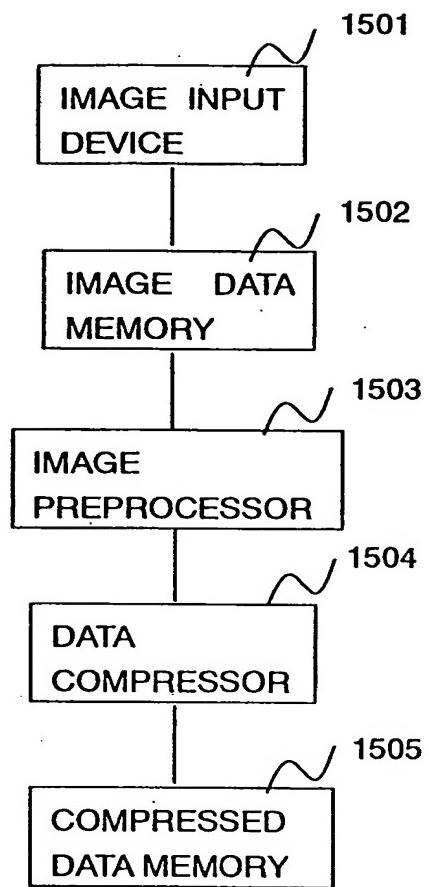


FIG.17



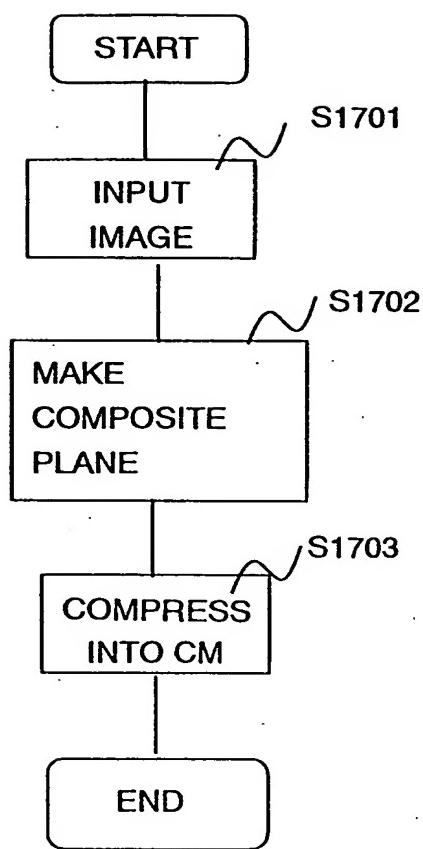
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FIG.18



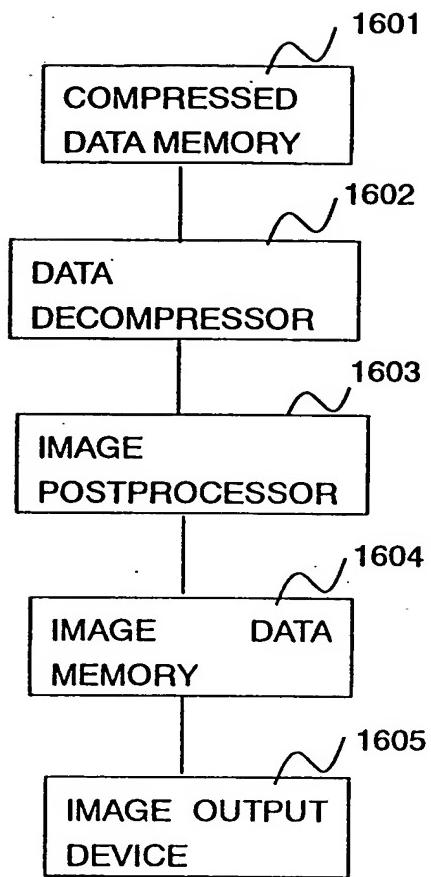
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FIG.19



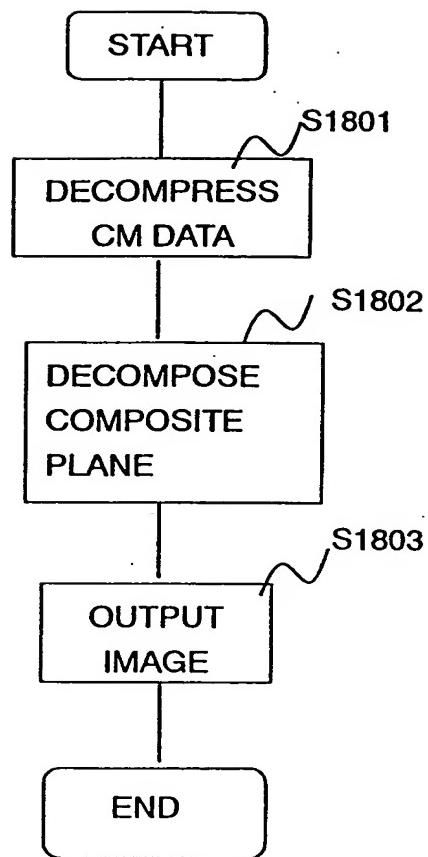
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FIG.20



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FIG.21



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FIG.22

PLANE 0

0 0	0 2
2 0	2 2

COMPOSITE PLANE

0 0	0 1	0 2	0 3
1 0	1 1	1 2	1 3
2 0	2 1	2 2	2 3
3 0	3 1	3 2	3 3

PLANE 1

0 1	0 3
2 1	2 3

PLANE 2

1 0	1 2
3 0	3 2

PLANE 3

1 1	1 3
3 1	3 3